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NEWS 3 JUN 01 CAS REGISTRY Source of Registration (SR) searching
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NEWS 9 JUL 27 CA/CAPLUS enhanced with new citing references
NEWS 10 JUL 16 GBFULL adds patent backfile data to 1855
NEWS 11 JUL 21 USGENE adds bibliographic and sequence information
NEWS 12 JUL 28 EFFULL adds first-page images and applicant-cited
references
NEWS 13 JUL 28 INPADOCDB and INPAFAMDB add Russian legal status data
NEWS 14 AUG 10 Time limit for inactive STN sessions doubles to 40
minutes
NEWS 15 AUG 18 COMPENDEX indexing changed for the Corporate Source
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NEWS 16 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 17 AUG 24 CA/CAPLUS enhanced with legal status information for
U.S. patents
NEWS 18 SEP 09 50 Millionth Unique Chemical Substance Recorded in
CAS REGISTRY
NEWS 19 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese PTERM
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 10:54:55 ON 01 OCT 2009

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STRUCTURE FILE UPDATES: 29 SEP 2009 HIGHEST RN 1186580-18-6

DICTIONARY FILE UPDATES: 29 SEP 2009 HIGHEST RN 1186580-18-6

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L1 STRUCTURE UPLOADED

=> s l1 sss full

FULL SEARCH INITIATED 10:55:17 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 24 TO ITERATE

100.0% PROCESSED 24 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

L2 1 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	185.88	186.10

FILE 'CAPLUS' ENTERED AT 10:55:22 ON 01 OCT 2009

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FILE COVERS 1907 - 1 Oct 2009 VOL 151 ISS 14
FILE LAST UPDATED: 30 Sep 2009 (20090930/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

-> s 12

L3 2 L2

=> d 13 1-2 ibib ab hitstr

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1242575 CAPLUS

DOCUMENT NUMBER: 147:502363

TITLE: Preparation of diarylthiohydantoin as androgen receptor antagonists for the treatment of hormone refractory prostate cancer
Jung, Michael; Yoo, Dongwon; Sawyers, Charles L.; Tran, Chris

INVENTOR(S):
PATENT ASSIGNEE(S): Regents of the University of California, USA

SOURCE: U.S. Pat. Appl. Publ., 63pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20070254933	A1	20071101	US 2007-730168	20070329
US 20080139634	A2	20080612		
AU 2007245022	A1	20071108	AU 2007-245022	20070329
CA 2648139	A1	20071108	CA 2007-2648139	20070329
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WO 2007127010	A9	20080522		
WO 2007127010	A3	20080731		

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GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

EP 2013187 A2 20090114 EP 2007-754380 20070329

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JP 2009531449 T 20090903 JP 2009-503016 20070329

MX 2008012492 A 20081212 MX 2008-12492 20080929

NO 2008004480 A 20081219 NO 2008-4480 20081023

KR 2009009215 A 20090122 KR 2008-726364 20081028

IN 2008DN09073 A 20090320 IN 2008-DN09073 20081029

CN 101460467 A 20090617 CN 2007-80020099 20081201

PRIORITY APPLN. INFO.: US 2006-786837P P 20060329

WO 2007-US7854 W 20070329

OTHER SOURCE(S): MARPAT 147:502363

AB Title compds. I [wherein R1, R2 = Me; R1 and R2 together with the carbon to which they are linked form a 4/5-membered cycloalkyl; R3 = carbamoyl, alkylcarbamoyl, carbamoylalkyl, etc.; R4 = H or F] were prepared as androgen receptor antagonists. For instance, II was synthesized in 25% yield by cyclization of 4-isothiocyanato-2-trifluoromethylbenzonitrile (preparation given) with N-methyl-2-4-[(1,1-dimethylcyanomethyl)amino]benzamide (preparation given). Extensive biol. tests of I and related compds. were carried out, and their relationship with structures was reported. The invented compds. and their pharmaceutical compns. are useful for the treatment of hormone refractory prostate cancer.

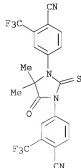
IT 915087-60-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diarylthiohydantoin as androgen receptor antagonists for treatment of hormone refractory prostate cancer)

RN 915087-60-4 CAPLUS

CN Benzonitrile, 4,4'-(4,4-dimethyl-5-oxo-2-thioxo-1,3-imidazolidinediyl)bis[2-(trifluoromethyl)- (CA INDEX NAME)]



L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1228845 CAPLUS

DOCUMENT NUMBER: 145:505452

TITLE: Preparation of diarylhydantoin compounds as androgen receptor antagonists useful against hormone refractory prostate cancer

INVENTOR(S): Sawyers, Charles L.; Jung, Michael E.; Chen, Charlie D.; Oak, Samedy; Welsbie, Derek; Tran, Chris; Wongvipat, John; Yoo, Dongwon

PATENT ASSIGNEE(S): The Regents of the University of California, USA

SOURCE: PCT Int. Appl., 166pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006124118	A1	20061123	WO 2006-US11417	20060329
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU 2006248109	A1	20061123	AU 2006-248109	20060329
CA 2608436	A1	20061123	CA 2006-2608436	20060329
EP 1893196	A1	20080305	EP 2006-748863	20060329
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JP 2008540523	T	20081120	JP 2008-511114	20060329
US 20070004753	A1	20070104	US 2006-433829	20060515
MX 2007014132	A	20080409	MX 2007-14132	20071112
NO 2007006401	A	20080208	NO 2007-6401	20071212
KR 2008014039	A	20080213	KR 2007-729188	20071213
IN 2007DN09668	A	20080620	IN 2007-DN9668	20071213
CN 101222922	A	20080716	CN 2006-80025545	20080114
PRIORITY APPLN. INFO.:			US 2005-680835P	P 20050513
			US 2005-750351P	P 20051215
			US 2006-756552P	P 20060106
			US 2006-785978P	P 20060327
			WO 2006-US11417	W 20060329

OTHER SOURCE(S): MARPAT 145:505452

AB The present invention relates to diarylhydantoin compds., including diarylthiohydantoins (shown as I; variables defined below; e.g. N-methyl-4-[(7-(4-cyano-3-trifluoromethylphenyl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)-2-fluorobenzamide (shown as II)), and methods for synthesizing them and using them in the treatment of hormone refractory prostate cancer. For I: X = trifluoromethyl and iodo; W = O and NR5; R5 = H, Me, and -C(D)-E-G, (D is S or O and E is N or O and G is (un)substituted alkyl or aryl, or D is S or O and E-G together are C1-C4 lower alkyl); R1 and R2 together comprise eight or fewer C atoms and =

(un)substituted alkyl including haloalkyl, and, together with the C to which they are linked, (un)substituted cycloalkyl; R3 = H, halogen, Me, Cl-C4 alkoxy, formyl, haloacetoxy, trifluoromethyl, cyano, nitro, hydroxy, Ph, amino, methylcarbamoyl, methoxycarbonyl, acetamido, methanesulfonamino, methanesulfonyl, 4-methanesulfonyl-1-piperazinyl, piperazinyl, and Cl1-C6 alkyl or alkenyl (un)substituted with hydroxy, methoxycarbonyl, cyano, amino, amido, nitro, (un)substituted carbamoyl including methylcarbamoyl, dimethylcarbamoyl, and hydroxyethylcarbamoyl; R3 is not methylaminomethyl or dimethylaminomethyl; and R4 = H, halogen, alkyl, and haloalkyl. Methods of preparation are claimed and preps. and/or characterization data for .apprx.60 examples of I are included. For example, II was prepared in 4 steps (91, 94, 89, 57 % yields, resp.) involving intermediates N-methyl-2-fluoro-4-nitrobenzamide, N-methyl-2-fluoro-4-aminobenzamide, and N-methyl-4-(1-cyanocyclobutylamino)-2-fluorobenzamide; the last step comprises cyclization of 4-isothiocyanato-2-trifluoromethylbenzonitrile (preparation given) with N-methyl-4-(1-cyanocyclobutylamino)-2-fluorobenzamide in DMF under microwave irradiation at 80° for 16 h followed by refluxing for 3 h after addition of MeOH and 2 N HCl.

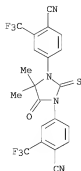
IT 915087-60-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of diarylthiohydantoin compds. as androgen receptor antagonists useful against hormone refractory prostate cancer)

RN 915087-60-4 CAPLUS

CN Benzonitrile, 4,4'-(4,4-dimethyl-5-oxo-2-thioxo-1,3-imidazolidinediyl)bis(2-(trifluoromethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

=> s diarylthiohydantoin

2 DIARYLTHIOHYDANTOIN
6 DIARYLTHIOHYDANTOINS
6 DIARYLTHIOHYDANTOIN

L4

(DIARYLTHIOHYDANTOIN OR DIARYLTHIOHYDANTOINS)

-> d 14 1-6 ibib ab

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:543704 CAPLUS

DOCUMENT NUMBER: 151:115902

TITLE: Development of a Second-Generation Antiandrogen for Treatment of Advanced Prostate Cancer

AUTHOR(S): Tran, Chris; Ouk, Samedy; Clegg, Nicola J.; Chen, Yu; Watson, Philip A.; Arora, Vivek; Wongvipat, John; Smith-Jones, Peter M.; Yoo, Dongwon; Kwon, Andrew; Wasielewska, Teresa; Welsbie, Derek; Chen, Charlie; Degui, Higano, Celestia S.; Beer, Tomasz M.; Hung, David T.; Scher, Howard I.; Jung, Michael E.; Sawyers, Charles L.

CORPORATE SOURCE: Human Oncology and Pathogenesis Program, Memorial Sloan-Kettering Cancer Center, New York, NY, 10065, USA

SOURCE: Science (Washington, DC, United States) (2009), 324(5928), 787-790

CODEN: SCIEAS; ISSN: 0036-8075

PUBLISHER: American Association for the Advancement of Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Metastatic prostate cancer is treated with drugs that antagonize androgen action, but most patients progress to a more aggressive form of the disease called castration-resistant prostate cancer, driven by elevated expression of the androgen receptor. Here we characterize the diarylthiohydantoins RD162 and MDV3100, two compds. optimized from a screen for nonsteroidal antiandrogens that retain activity in the setting of increased androgen receptor expression. Both compds. bind to the androgen receptor with greater relative affinity than the clin. used antiandrogen bicalutamide, reduce the efficiency of its nuclear translocation, and impair both DNA binding to androgen response elements and recruitment of coactivators. RD162 and MDV3100 are orally available and induce tumor regression in mouse models of castration-resistant human prostate cancer. Of the first 30 patients treated with MDV3100 in a Phase I/II clin. trial, 13 of 30 (43%) showed sustained declines (by >50%) in serum concns. of prostate-specific antigen, a biomarker of prostate cancer. These compds. thus appear to be promising candidates for treatment of advanced prostate cancer.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:950368 CAPLUS

TITLE: Rational drug design for the treatment of hormone refractory prostate cancer

AUTHOR(S): Jung, Michael E.

CORPORATE SOURCE: Department of Chemistry and Biochemistry, UCLA, Los Angeles, CA, 90095-1569, USA

SOURCE: Abstracts of Papers, 236th ACS National Meeting, Philadelphia, PA, United States, August 17-21, 2008 (2008), CARB-028. American Chemical Society: Washington, D. C.

CODEN: 69KKQ2

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)

LANGUAGE: English

AB The switch from hormone sensitive to hormone refractory prostate cancer

involves a 3- to 5-fold upregulation of the androgen receptor (AR) but is still androgen dependent. Therefore to effectively treat hormone refractory prostate cancer, one requires much more potent androgen receptor antagonists than the ones currently available. A new class of potent androgen receptor antagonists was designed and prepared. Biol. data shows that these compds., diarylthiohydantoins, are extremely effective at inhibiting the growth of prostate cancer cells in which the AR has been overexpressed. A summary of the design, preparation, and biol. testing of these new AR antagonists, to include data on metabolism, distribution, and pharmacokinetics, will be presented. The lead compound, MDV3100, is now in Phase 1/2 clin. trials.

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2007:1242575 CAPLUS

DOCUMENT NUMBER: 147:502363

TITLE: Preparation of diarylthiohydantoins as androgen receptor antagonists for the treatment of hormone refractory prostate cancer
INVENTOR(S): Jung, Michael; Yoo, Dongwon; Sawyers, Charles L.; Tran, Chris

PATENT ASSIGNEE(S): Regents of the University of California, USA

SOURCE: U.S. Pat. Appl. Publ., 63pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070254933	A1	20071101	US 2007-730168	20070329
US 20080139634	A2	20080612		
AU 2007245022	A1	20071108	AU 2007-245022	20070329
CA 2648139	A1	20071108	CA 2007-2648139	20070329
WO 2007127010	A2	20071108	WO 2007-US7854	20070329
WO 2007127010	A9	20080522		
WO 2007127010	A3	20080731		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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KR 2009009215	A	20090122	KR 2008-726364	20081028
IN 2008DN09073	A	20090320	IN 2008-DN9073	20081029
CN 101460467	A	20090617	CN 2007-80020099	20081201
PRIORITY APPLN. INFO.:			US 2006-786837P	P 20060329
			WO 2007-US7854	W 20070329

OTHER SOURCE(S): MARPAT 147:502363

AB Title compds. I [wherein R1, R2 = Me; R1 and R2 together with the carbon to which they are linked form a 4/5-membered cycloalkyl; R3 = carbamoyl, alkylcarbamoyl, carbamoylalkyl, etc.; R4 = H or F] were prepared as androgen receptor antagonists. For instance, II was synthesized in 25% yield by cyclization of 4-isothiocyanato-2-trifluoromethylbenzonitrile (preparation given) with N-methyl-2-4-[(1,1-dimethylcyanomethyl)amino]benzamide (preparation given). Extensive biol. tests of I and related compds. were carried out, and their relationship with structures was reported. The invented compds. and their pharmaceutical compns. are useful for the treatment of hormone refractory prostate cancer.

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1228845 CAPLUS
DOCUMENT NUMBER: 145:505452
TITLE: Preparation of diarylhydantoin compounds as androgen receptor antagonists useful against hormone refractory prostate cancer
INVENTOR(S): Sawyers, Charles L.; Jung, Michael E.; Chen, Charlie D.; Oak, Samedy; Welsbie, Derek; Tran, Chris; Wongvipat, John; Yoo, Dongwon
PATENT ASSIGNEE(S): The Regents of the University of California, USA
SOURCE: PCT Int. Appl., 166pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006124118	A1	20061123	WO 2006-US11417	20060329
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NO 2007006401	A	20080208	NO 2007-6401	20071212
KR 2008014039	A	20080213	KR 2007-729188	20071213
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CN 101222922	A	20080716	CN 2006-80025545	20080114
PRIORITY APPLN. INFO.:			US 2005-680835P	P 20050513
			US 2005-750351P	P 20051215
			US 2006-756552P	P 20060106
			US 2006-785978P	P 20060327

OTHER SOURCE(S): MARPAT 145:505452

AB The present invention relates to diarylhydantoin compds., including diarylthiohydantoins (shown as I; variables defined below; e.g. N-methyl-4-[7-(4-cyano-3-trifluoromethylphenyl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl]-2-fluorobenzamide (shown as II)), and methods for synthesizing them and using them in the treatment of hormone refractory prostate cancer. For I: X = trifluoromethyl and iodo; W = O and NR5; R5 = H, Me, and -C(:D)-E-G, (D is S or O and E is N or O and G is (un)substituted alkyl or aryl, or D is S or O and E-G together are C1-C4 lower alkyl); R1 and R2 together comprise eight or fewer C atoms and = (un)substituted alkyl including haloalkyl, and, together with the C to which they are linked, (un)substituted cycloalkyl; R3 = H, halogen, Me, C1-C4 alkoxy, formyl, haloacetoxy, trifluoromethyl, cyano, nitro, hydroxy, Ph, amino, methylcarbamoyl, methoxycarbonyl, acetamido, methanesulfonamino, methanesulfonyl, 4-methanesulfonyl-1-piperazinyl, piperazinyl, and C1-C6 alkyl or alkenyl (un)substituted with hydroxy, methoxycarbonyl, cyano, amino, amido, nitro, (un)substituted carbamoyl including methylcarbamoyl, dimethylcarbamoyl, and hydroxyethylcarbamoyl; R3 is not methylaminomethyl or dimethylaminomethyl; and R4 = H, halogen, alkyl, and haloalkyl. Methods of preparation are claimed and preps. and/or characterization data for .apprx.60 examples of I are included. For example, II was prepared in 4 steps (91, 94, 89, 57 % yields, resp.) involving intermediates N-methyl-2-fluoro-4-nitrobenzamide, N-methyl-2-fluoro-4-aminobenzamide, and N-methyl-4-(1-cyanocyclobutylamino)-2-fluorobenzamide; the last step comprises cyclization of 4-isothiocyanato-2-trifluoromethylbenzonitrile (preparation given) with N-methyl-4-(1-cyanocyclobutylamino)-2-fluorobenzamide in DMF under microwave irradiation at 80° for 16 h followed by refluxing for 3 h after addition of MeOH and 2 N HCl.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:186354 CAPLUS

DOCUMENT NUMBER: 104:186354

ORIGINAL REFERENCE NO.: 104:29509a,29512a

TITLE: 5,5-Diaryl-2-thiohydantoins and 5,5-diaryl
N3-substituted 2-thiohydantoins as potential
hypolipidemic agents

AUTHOR(S): Tompkins, J. Ellsworth

CORPORATE SOURCE: Coll. Health Related Profess., State Univ. New York,
Syracuse, NY, 13210, USA

SOURCE: Journal of Medicinal Chemistry (1986), 29(5), 855-9
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 104:186354

AB Title thiohydantoins I [R = H, R1, R2 = (un)substituted Ph, 2-pyridyl;
R-R2 = Ph; R = Bu, R1 = R2 = Ph or 2-pyridyl] were prepared as potential
hypolipidemic agents with the goal of increased potency over DPTH (I; R =
H, R1 = R2 = Ph) itself. I (R = H, R1 = R2 = 2-pyridyl) had slightly
better activity than DPTH in lowering liver cholesterol values.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1972:34167 CAPLUS

DOCUMENT NUMBER: 76:34167

ORIGINAL REFERENCE NO.: 76:5535a,5538a
 TITLE: Hydantoins, thiohydantoins, glycocyamidines. XXXIII.
 Reductive uncoupling rearrangements of the
 retrobenzilic acid type using Lewis acids. VIII.
 Reactions of 5,5-diarylthiohydantoins with
 boron trifluoride etherates, boron trifluoride
 etherate/boron trifluoride mixtures, and gallium
 bromide
 AUTHOR(S): Fetter, J.; Nyitrai, J.; Lempert, K.
 CORPORATE SOURCE: Inst. Org. Chem., Tech. Univ., Budapest, Hung.
 SOURCE: Tetrahedron (1971), 27(23), 5933-41
 CODEN: TETRAH; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: German

AB 5,5-Diaryldithiohydantoins refluxed with BF₃-Me₂O are selectively
 methylated at the S-2 atom, and (or) suffer rearrangements of the
 retrobenzilic acid type under simultaneous extrusion of the thioxo S atom
 from position 4 to yield imidazole derivs. The latter type of reaction
 was previously effected by AlCl₃. Derivs. already methylated at the S-2
 atom are only rearranged, as are also the derivs. of
 5,5-diphenyl-4-thiohydantoin if a reaction with the latter occurs at all.
 Derivs. of 5,5-diphenyl-2-thiohydantoin, on the other hand, are only
 S-methylated by BF₃-Me₂O without being rearranged. The selective
 methylating properties of the BF₃-Me₂O reagent may be applied for the
 smooth preparation of several hitherto difficultly accessible (di)thiohydantoin
 derivs. GaBr₃ is a catalyst comparable with AlCl₃ for effecting
 rearrangements of 5,5-diaryl-4-thio- and -dithiohydantoin derivs., its
 milder properties being in some cases favorable. In the cases where the
 migratory aptitudes of Ph and p-chlorophenyl groups could be compared the
 migratory aptitude of the former was always the greater.

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 LAST RELOADED: Sep 25, 2009 (20090925/UP).